Introduction

Thank you for selecting Twister. Twister is a four-channel DMX laser which can be controlled via a standard DMX controller. It is a lightweight, mini intelligent fixture and is an ideal product for discos, small clubs, exhibitions and any place that need visionary effect. Twister creates exciting dual beam show with double scanner action and four operating modes. For safe operation, read this manual before powering or installing the fixture, follow the safety precautions listed below, and observe all warnings printed in this manual and on the fixture.

Safety Precautions

- Do not spill liquids in to or on to your unit. If this ever happens, disconnect the main power immediately. Do not connect this unit to any dimmer pack.
- Always disconnect from main power before making any type of connection.
- Be sure to locate this unit in a place with adequate ventilation at least 15 cm from a wall, and mount this unit in safe and stable matter.
- To prevent fire or shock hazard, do not expose this unit to a high temperature or high humidity area. Please unplug unit when not in use.
- Always keep combustible materials away from the fixture.
- This unit is intended for indoor use. Use of this unit outdoors voids all warranties.
- Always refer service to a qualified technician. Never look directly into laser beam.
- Occasional breaks are necessary to prevent breakdowns. Top Panel
- **Caution - Use of controls or adjustments or performance of procedures other than as specified herein may result in hazardous radiation exposure!**

Set Up

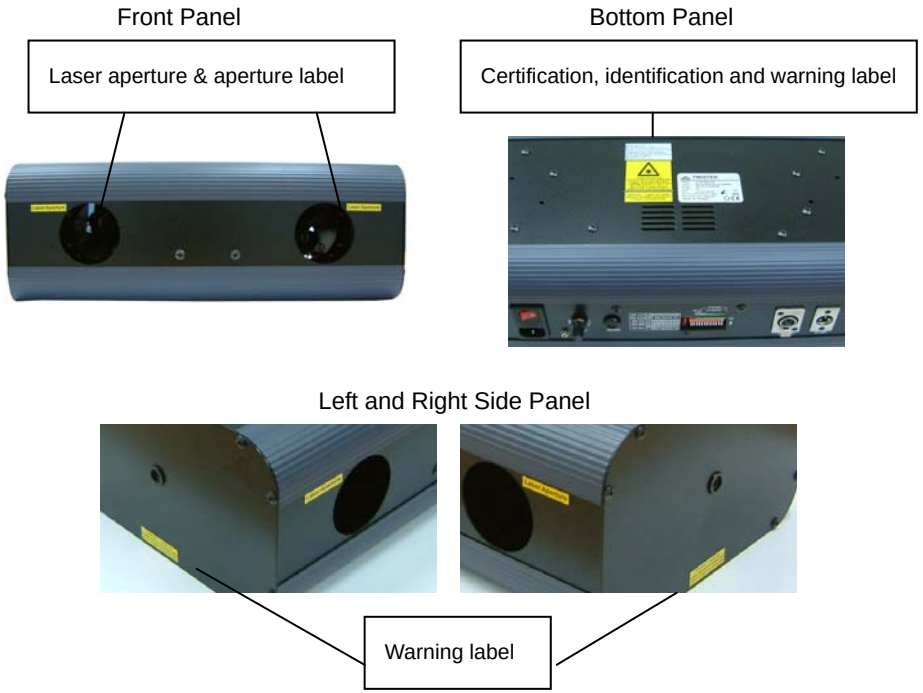
Unpacking Twister comes with: 1 hanging bracket, 2 clamp levers, 2 washers, 1 power cord and 1 user manual. Unpack carefully and be sure that no damage has occurred during shipping. If there is anything missing or appear to be damaged please contact your dealer.

Power Connection Be sure the source voltage in your area matches the required voltage for your Twister before plugging your unit in. Incorrect voltage selection will detrimentally affect the operation of this product.

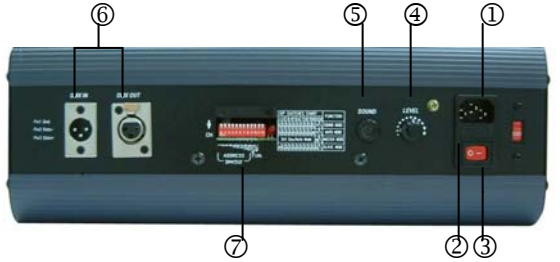
DMX Cable Connection Twister is a four-channel DMX fixture that can be operated with universal DMX controller. This unit and DMX controller require a standard 3-pin XLR connector for data input and data output.

Installation/Mounting Twister should be properly mounted by using a suitable hanging clamp and safety cable. Use in a well-ventilated area. Be sure no ventilation slots are blocked.

Safety Label Position



Control Panel Introduction



① Power Cord Connection
② Fuse
③ Power Switch
④ Sensitivity Adjustment Knob
⑤ Microphone
⑥ DMX In & Out
⑦ DIP Switch Pin

Operating Modes (Cont.)

DMX Signal Levels

Channel 1		Channel 2	
Range	**Lines Selection**	**Range**	**Patterns Selection**
226-255	Lines change every 5 seconds	221-255	Automatically change all the patterns in every 10 seconds
208-225	Lines change every 3 seconds	204-220	Sound Active Mode
157-207	Dotted Line 3	199-203	Pattern 15
105-156	Dotted Line 2	185-198	Pattern 14
		: : :	: : :
53-104	Dotted Line 1		
1-52	Line	31-44	Pattern 3
0	Off	17-30	Pattern 2
		4-16	Pattern 1
		0-3	Off

Operating Modes (Cont.)

DMX Signal Levels

Channel 3		Channel 4	
Range	**Mirror Rotation No. 1**	**Range**	**Mirror Rotation No. 2**
228-255	Sound Active	228-255	Sound Active
224-227	Counterclockwise Fast	224-227	Clockwise Fast
220-223	Counterclockwise Medium	220-223	Clockwise Medium
216-219	Counterclockwise Slow	216-219	Clockwise Slow
213-215	Stop	213-215	Stop
209-212	Clockwise Slow	209-212	Counterclockwise Slow
205-208	Clockwise Medium	205-208	Counterclockwise Medium
201-204	Clockwise Fast	201-204	Counterclockwise Fast
200 ↕ 0	0 360 360°	200 ↕ 0	-0 -360 -360°

Fuse Replacement

Always disconnect from main power supply before attempting to replace the fuse Remove the old fuse from the holder and replace with the exact same type fuse. Replacement with anything other than the specified part may damage your unit.

Trouble Shooting

- If there is no light from the unit, please check the main power supply and fuse.
- If unit does not respond to DMX, please check the DMX cables are connected properly and are wired correctly.
- If unit does not response to the music please check the sound-activation adjustment.
- If problems cannot be solved please contact your dealer for service

Cleaning

Use a soft cloth and normal glass cleaner to clean the outside casing and the hexagonal reflection mirror. Cleaning frequency depends on the environment in which the fixture operates. Be sure to dry all parts before plugging the unit back in.

Specifications

Model No.	AL46-05R/ 30R/ 50R/ 100R			AL46-05G/ 20G/ 30G
Laser power	4.9/ 30/ 50/ 100mW x 2			4.9/ 20/ 30mW
Laser color	Red			Green
Model No.	AL46-5R5G	AL46-50R20G	AL46-100R30G	AL46-200R50G
Laser Power	4.9~200mW Red & 4.9~50mW Green			
Laser color	Red and Green			
Net Weight	6.5kgs			
Power	AC 100V~120V or 220V~240V 50/60HZ			
Classification	4.9mW to 20mW: 3R/ 30mW to 200mW: 3B			
Size (mm)	L435 × W220 × H135			
Fuse	20mm×2A			
Material	Metal			
Beam Divergence	< 1.5 mrad			
Op. Temperature	18 ~ 25 ℃			

Operating Modes

1. Stand-Alone Operation (Auto, Sound Active Mode)

Auto mode

- The unit runs built-in program to change the laser effects automatically. Set DIP switch pin 10 to ON, other pins to OFF to run Auto mode

Sound Active mode

- This unit has built-in program that will react to sound and music under Sound Active mode. Set all DIP switch pins to OFF to run Sound Active mode. Please adjust “Sensitivity Adjustment Knob” to fine-tune the optimum level of sound reaction.

2. Master-Slave Operation (Auto, Sound Active Mode)

This mode allows user to link up to 32 units to run the Master-Slave operation. In the Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit. Daisy chain your units via the standard XLR microphone cables in the following configuration: ‘Out’ from the first unit to ‘In’ on the second, ‘Out’ from the second to ‘In’ on the third and so on.

Auto mode

- To set the master: Set DIP switch pin 10 and 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

Sound Active mode

- To set the master: Set DIP switch pin 11 to ON, other pins to OFF.
- To set the slaves: Set pin 1 to ON, other pins to OFF

3. DMX Operation

DMX operation gives the users freedom to create their own programs tailored to their own individual needs. To run this unit in DMX mode, connect the unit to any standard DMX controller via XLR connectors. Please consult DMX controller manual to determine address.

Function Selection Chart

DIP SWITCHES CHART												FUNCTION
1	2	3	4	5	6	7	8	9	10	11	12	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	N/A	N/A	SOUND MODE
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	N/A	N/A	AUTO MODE
SET SOUND / AUTO MODE										ON	N/A	MASTER
ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	N/A	SLAVE
SET ADDRESS									OFF	OFF	N/A	DMX MODE

Twister

AL46 Series User Manual

Your Best Mate

in Laser Lighting!

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